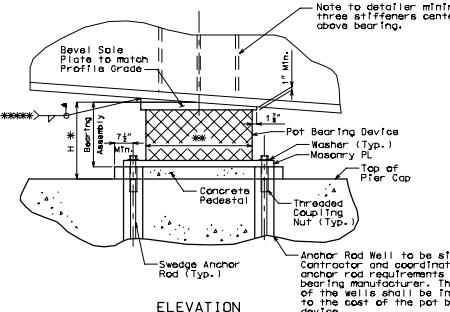
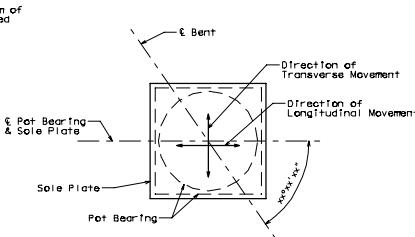


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ELEVATION



POT BEARING PLAN

BEARING DATA TABLE		
Location		
Fx/Exp.		
Duan. Req'd.		
Design load (kip)	Service limit state	Vertical max. perm. min.
	Transverse	
	Longitudinal	
	Strength limit state	Vertical Transverse Longitudinal
	Service limit state	Transverse Longitudinal
	Strength limit state	Transverse Longitudinal
	Rotation (rad.)	Service limit state Transverse Longitudinal
*** One Way Longit. Movement		
*** (G) Guide Clearance		
Masonry Plate	Lm	
	Xm	
	Tm	
Auxiliary Plate	La	
	Wa	
	Ta	
Sole Plate	LS	
	WS	
	T1	
	T2	
Bearing H		
Anchor Rods	d	
	Rods / Brdg.	
Weld Size	W1	
	W2	

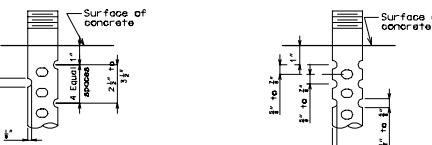
Detailed Checked

Note: This drawing is not to scale. Follow dimensions.

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DETAILS OF POT BEARING PAD ASSEMBLY



DETAIL OF 3/4" Ø THRU 2 1/2" Ø ANCHOR

OPTIONAL DETAIL OF 1 3/8" Ø THRU 2 1/2" Ø ANCHOR

SWEDGE ANCHOR ROD DETAILS

Notes:

T2 is upstation of T1.

*** One Way Longitudinal Movement is the maximum one way movement (expansion or contraction) of the superstructure when bearings are set at 70 degrees F plus 1% tolerance.

*** On wide structures and on curved structures provisions shall be made for limited lateral movement.

NOTES:

The bearing design shall conform to the provisions of the latest edition of AASHTO.

The contractor, in coordination with the bearing manufacturer, shall be responsible for sizing the sole plate and masonry plate and determining the size, number, and location of anchor rods based on the load and movement requirements. In coordination with the bearing manufacturer, the contractor shall submit calculations sealed by a Professional Engineer, licensed in the state of Missouri, indicating conformance with design load and material criteria in the contract documents.

* Maximum vertical dimension of the complete bearing. If the actual bearing dimension differs, adjustments shall be made. In the thickness of the sole plate, masonry plate, and anchor rods as needed by the contractor or at no additional cost to the owner. Contractor shall submit proposed method of adjustment to Engineer for approval.

** Estimated horizontal dimension of the pot bearing device. If the actual dimension differs, adjust the size of the sole plate and masonry plate as needed by the contractor at no additional cost to the owner.

*** The temperature of the steel adjacent to the elastomeric should be kept below 250°F.

The dimension "H" in the Bearing Data Table represents the assumed total height of both the elastomeric and the sole plate and masonry plate used by the designer to establish the pedestal elevations.

The bearings shall be manufactured pot bearings, designed for the load and movement capacities indicated in the Bearing Data Table.

All expansion Bearings shall have maximum friction coefficient of 3%.

Steel for pot bearings shall be AASHTO M270 Grade 50 and shall be galvanized. Steel for sole plate and masonry plates shall be AASHTO M270 Grade 50.

Anchor rods shall conform to ASTM F1554 Grade 50W. The anchor rods shall be the swedge-type and shall have a minimum diameter of 1 1/2-inches and extend a minimum of 12-inches into the concrete. Swaging shall be 1-inch less than the extension into the concrete.

Anchor rods shall be installed using a hardened steel washer at each exposed location.

Washers shall conform to ASTM F463.

Certified mill test reports, conforming to the requirements of the specifications, for the metals of the pot bearing device, sole plate, masonry plate and anchor rods shall be submitted.

The masonry plate shall be prepared per the specifications and shop-coated with one coat of Inorganic zinc primer (5 mils minimum).

The sole plate shall be prepared per the specifications and shop-coated with two coats of Inorganic zinc primer (5 mils minimum).

The bearing device, sole plate and masonry plate shall be assembled in the shop and the bearing assembly shall be field welded to the bottom flange of the steel column. The bearing device shall be designed for the load capacities indicated in the Bearing Data Table.

After Installation of the bearing, any uncoated or damaged surfaces of the masonry and sole plates shall be prepared in accordance with the specifications and field-coated with Inorganic zinc primer (5 mils minimum).

After Installation of the bearing and field-applied prime coats, the surfaces of the masonry and sole plates shall be field-coated with System G Intermediate and finish coat.

All bearings shall be marked prior to shipping. The marks shall include the bearing position on the base plate and the name of the bearing manufacturer. All marks shall be permanent and be visible after the bearing is installed.

The pot bearing device, sole plate, masonry plate, anchor rods, washers, anchor rod washers and other appearances included in the fabrication and Installation of the pot bearing device shall be incidental to the pay item "Pot Bearings".

Whenever jacking of the Superstructure is needed to reset the bearings, the contractor shall submit a jacking sequence for approval.



Indicates parts designed by the manufacturer.

CREATED IN
MICROSTATION